PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

NOV 2 8 2005

(PCT Article 18 and Rules 43 and 44)

Approant s o r agent s me reference		FOR FURTHER ACTION		(Form PCT/ISA/220) as well as, where applicable, iter below.			
International application No. PCT/US03/13765		International filing date (day/month/year) 02 May 2003 (02.05.2003)		(Earliest) Priority Date (day/month/ye 03 May 2002 (03.05.2002)			
Applicant MOLECULAR	PROBES, INC.						
This internation	nal search report has bee rticle 18. A copy is bein	n prepared by this International Seg transmitted to the International	arching A Bureau.	uthority and is transmitted to the appli			
This internation	nal search report consists	of a total ofsheets.					
	It is also accompanie	d by a copy of each prior art docu	ment cited	in this report.			
Basis of th a. Wit lang	h regard to the language,	the international search was carried unless otherwise indicated under t	out on the	basis of the international application in			
b. Wit	uthority (Rule 23.1(b)). h regard to any nucleotide			international application furnished to the international application, the internation			
c	ontained in the internation	al application in written form.					
fi	led together with the inter	national application in computer res	dable form	ı .			
☐ fi	rnished subsequently to th	is Authority in written form.					
		uls Authority in computer readable f	orm.				
	e statement that the subsecternational application as		isting does	not go beyond the disclosure in the			
L th	e statement that the informen furnished.	nation recorded in computer readable	e form is i	dentical to the written sequence listing b			
2 C	ertain claims were found	unsearchable (See Box I).					
	Unity of invention is lacking (See Box II).						
~	d to the title,	Carried November 1995					
	e text is approved as subm						
	e rext trae deen established	by this Authority to read as follow	: :				
5. With regar	d to the abstract,						
⊠ th	text is approved as subm	sitted by the applicant.					
th	e text has been established thin one month from the o	, according to Rule 38.2(b), by this late of mailing of this international	Authority earch repo	as it appears in Box III. The applicant sort, submit comments to this Authority.			
6. The figure	of the drawings to be put	olished with the abstract is Figure N	o				
1 1	suggested by the applican			None of the figures			
be be	cause the applicant failed	to suggest a figure.					
be	cause this figure better ch	aracterizes the invention.					
	0 (first sheet) (July 1998)						

	INTERNATIONAL SEARCH REPO	ORT International app PCT/US03/1376			pplication No.		
					5		
IPC(7) US CL According t	SSIFICATION OF SUBJECT MATTER : C07D 239/88, 277/62, 311/82, 417/02, 495/6 : 536/3; 544/287; 548/110, 179, 304.1; 549/22 of International Patent Classification (IPC) or to both LDS SEARCHED	27; 435/7.1,	7.5				
	ocumentation searched (classification system followers 36/3; 544/287; 548/110, 179, 304.1; 549/227; 435/		cation symbol	s)			
Documentati	on searched other than minimum documentation to the	he extent tha	t such docum	ents are included i	in the fields searched		
Blectronic de CAS ONLIN	ata base consulted during the international search (nat	me of data t	ase and, when	re practicable, sea	rch terms used)		
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			····			
Category *	Citation of document, with indication, where	appropriate	of the releva	nt passages	Relevant to claim		
A, P		EP 1215501 A1 (TWU) 19 June 2002 (19.06.2002)					
A	US 5,049,673 A (TSIEN et al) 17 September 1991	69					
A	GEE et al. New Ratiometric Fluorescent Calcium I Binding Affinities. Bioorganic and Medicinal Chen 1515-1518.	69					
	documents are listed in the continuation of Box C.		See patent fai	•			
"A" document	ocial categories of cited documents: defining the general state of the art which is not considered to be ar relevance	"T"	date and not in a	published after the inte- conflict with the applica try underlying the inve	mutional filing date or prication but cited to understanding		
	dication or patent published on or after the international filing date	*X*	considered nove	or camos be consider	elamed invention causes b and to lavolve an inventive		
"L" document which may throw doubts on priority claim(s) or which is ched to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the			document of par	rument is taken alone particular relevance; the claimed invention cannol be involve an invendve step when the document is h one or more other such documents, such combined			
			being obvious to	a person skilled in the er of the same patent f	art		
priority da Date of the ac	rual completion of the international search	Date of m		nternational scare			
28 January 2005 (28,01,2005)			O 1 MA	D 2005	n report		
Name and mailing address of the ISA/US			d officer	770 4 4 6	nahl		
Mail Stop PCT, Atm: ISA/US Commissioner for Patents P.O. Box 1450			Figure 7. Powers Telephone No. 703-308-1235				
	undria, Virginia 22313-1450 (703) 305-3230	relephons	MO. /US-3U	2-1233			
	210 (second sheet) (July 1998)	<u> </u>	_,				

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicare the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where onginally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged: new claims 49 to 51 added."
- (Where originally there were 15 claims and after amendment of all claims there are 11): "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims I to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claims 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

-Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of illing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide,